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Certificate

AUG 19 2008

of Correction

on 8/12/2008
Date

Signature

NABIL GHALAY

Typed or printed name of person signing Certificate

(631) 549-0980

Registration Number, if applicable

Telephone Number

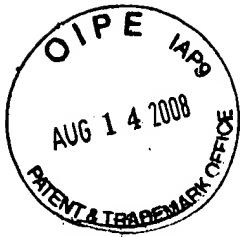
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AUG 19 2008



DR. NABIL N. GHALY
14 Longwood Drive
S. Huntington, NY 11746
(631) 549-0980

August 12, 2008

Attention Certificate Of Correction Branch
Commissioner of Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Ref.: US Patent No. RE 40,340E – Issue Date May 27, 2008
Certificate Of Correction – Office Mistake

Dear Sir:

I am the inventor named in the subject patent. Attached, please find my request to issue a Certificate of Correction for the subject patent, pursuant to 35 USC 254.

Thank you for your cooperation and assistance in this matter.

Sincerely,

Dr. Nabil N. Ghaly

Attach.

Certified mail 7003 1010 0003 3624 4390
Return receipt requested

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AUG 19 2008



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 3714

In re PATENT APPLICATION of

Applicant : NABIL N. GHALY
Serial No. : 08/962,971
Filed : October 27, 1997
**For : ELECTRONIC HAND HELD
LOGIC GAME
REISSUE APPLICATION OF
U.S. PATENT NO. 5,286,037
ISSUED FEBRUARY 15, 1994**
Examiner : SUNIT PNANDYA

August 12, 2008

**Attention Certificate of Corrections Branch
Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

CERTIFICATE OF CORRECTION – OFFICE MISTAKE

Sir:

This is to request the issuance of a certificate of correction for Patent No. US RE 40,340E pursuant to 35 USC 254, and as indicated in the attached pages 1 through 6 of the Certificate Of Correction (PTO Form SB/44). The errors and omissions indicated in the attached Certificate Of Correction were incurred through the fault of the Patent and Trademark Office, and are clearly disclosed by the records of the PTO. In view of the fact that there are numerous errors in the specification, errors in the drawings, as well as missing drawings in US Patent No. RE 40,340E, it is respectfully requested that the PTO issue a corrected patent pursuant to 37 CFR 1.322(b).

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PATENT PUBLIC RELATION

AUG 19 2008

REMARKS

United States Patent Number **RE 40,340E** was issued on May 27, 2008. This patent contains numerous errors in the specification and drawings, and is also missing 4 drawings as fully indicated in the attached Certificate Of Correction.

Items 1, 2 & 3 of the certificate of correction are included in the Applicant's response, dated June 12, 2006, which was filed in the Patent and Trademark Office on June 19, 2006.

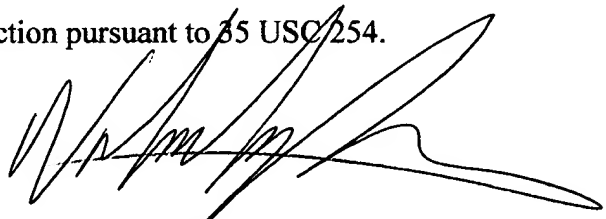
Items 4, 5 & 6 of the certificate of correction are included in the Applicant's Response To Final Rejection, dated November 9, 2006, which was filed in the Patent and Trademark Office on November 13, 2006.

Items 7, 8, 9, 10, 11, 12 & 13 are related to replacement and new drawings that were provided and were filed in the Patent and Trademark Office on January 10, 2007, as well as on June 20, 2007.

Clearly, the errors and omissions in the specification and drawings that are indicated in the attached Certificate Of Correction, were incurred through the fault of the Patent and Trademark Office, and are disclosed by the records of the PTO.

CONCLUSION

A corrected patent should be issued pursuant to 37 CFR 1.322 (b). In the alternative, the PTO should issue the attached Certificate Of Correction pursuant to 35 USC 254.



NABIL N. GHALY
Applicant, Pro Se
14 Longwood Drive
South Huntington, NY 11746
(631) 549-0980

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 1 of 6

PATENT NO. : US RE40,340 E
APPLICATION NO.: 08/962,971
ISSUE DATE : MAY 27, 2008
INVENTOR(S) : NABIL N. GHALY

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

1. Please replace the paragraph in the specification at column 2, line 52, and ending at column 2, line 57, with the following paragraph:

In an alternative embodiment shown in FIG. 27, the device comprises a liquid crystal display whereon a plurality of geometric shapes may be depicted and wherein a player attempts to discover a pattern of switch positions that results in a singular geometric shape being depicted at all locations on the liquid crystal display.

2. Please replace the paragraph in the specification at column 2, line 58, and ending at column 2, line 60, with the following paragraph:

In other alternative embodiments, the device comprises an interface module to provide multi-color displays, or images, on an external color video monitor. An example of such embodiments is shown in FIG. 28.

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Dr. Nabil N. Ghalyl
14 Longwood Drive
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UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 2 of 6

PATENT NO. : US RE 40,340 E
APPLICATION NO.: 08/962,971
ISSUE DATE : MAY 27, 2008
INVENTOR(S) : NABIL N. GHALY

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

3. Please insert the following new paragraph in the specification after the paragraph ending at column 3, line 41:

FIG. 25 indicates two examples of an embodiment, wherein the playing positions are mapped on the surface of a three-dimensional housing such as a sphere, or a cube.

FIG. 26 is a lookup table that illustrates the assignment of the color codes for the 4 x 4 embodiment to two colors.

FIG. 27 indicates an alternate embodiment using keypad switches, and a liquid crystal display screen.

FIG. 28 indicates an alternate embodiment that interfaces with an external video monitor to provide multi-color displays, or a plurality of images.

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Dr. Nabil N. Ghaly
14 Longwood Drive
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 3 of 6

PATENT NO. : US RE40,340E
APPLICATION NO.: 08/962,971
ISSUE DATE : MAY 27, 2008
INVENTOR(S) : NABIL N. GHALY

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

4. Please correct the paragraph in the specification at column 7, line 40 and ending at column 7, line 52 as follows:

It should be noted that the aforestated description of an algorithm to assign color codes to playing positions (as shown in **FIGS. 21 & 22**) is provided only as an example, and is not intended to limit the invention herein. As would be obvious to a person skilled in the art, there is almost unlimited number of ways to assign the generated color codes to playing positions. [For example, such assignment could be based on a fixed relationship between generated color codes and playing positions.] It should also be noted that a solution to a game, wherein the objective of the game is to provide the same color or image at all playing positions, is independent of how color codes or display codes are assigned to playing positions.

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Dr. Nabil N. Ghaly
14 Longwood Drive
South Huntington, NY 11746

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CERTIFICATE OF CORRECTION

Page 4 of 6

PATENT NO. : US RE 40,340 E
APPLICATION NO.: 08/962,971
ISSUE DATE : MAY 27, 2008
INVENTOR(S) : NABIL N. GHALY

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

5. Please correct the paragraph in the specification at column 10, line 44 and ending at column 10, line 51, as follows:

It should be noted that while the above description of the operation of the preferred embodiment employs bi-stable switches to control the routing squares, a routing square could be activated by a keypad switch [, i.e., momentary switch,] to toggle it between its two states indicated in FIGS. 2a & 2b. [In such a case, the states of a routing square, rather than the states of the bi-stable switch, are used to provide the various functions described for the preferred embodiment] It should also be noted that because a switch is an external device to a microprocessor that controls the operation of the device, and because a routing square is an internal element in the software that executes on the microprocessor, and since the states of a routing square reflect the activation of its associated external switch, it follows that the states of a routing square, rather than the states of an associated switch, are used to provide the various functions described for the preferred embodiment.

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Dr. Nabil N. Ghaly
14 Longwood Drive
South Huntington, NY 11746

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CERTIFICATE OF CORRECTION

Page 5 of 6

PATENT NO. : US RE 40,340 E
APPLICATION NO.: 08/962,971
ISSUE DATE : MAY 27, 2008
INVENTOR(S) : NABIL N. GHALY

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

6. Please correct the paragraph in the specification at column 10, line 52 and ending at column 10, line 61, as follows:

Further, it should [It should also] be noted that the number of colors or images playable by a device is a design choice. [The color codes in the 4x4 embodiment could be assigned to any pre-defined number of visual indications, i.e., to any pre-defined images or colors, including the color reflected from the surface of a display when it is dark. For the 4x4 embodiment, a person with ordinary skills in the art could employ such assignment to operate the device with 2, 3, 4, or 5 colors or images. Similarly, for the 8x8 embodiment, the number of colors or images could be 2 to 9.] A game designer can vary the number of colors playable by a device by making each of the color codes to correspond to either each of a plurality of predetermined colors or to a dark indication. Similarly, a game designer can vary the number of images playable by a device by making each of the display codes to correspond to either each of a plurality of predetermined images or to a blank display.

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Dr. Nabil N. Ghaly
14 Longwood Drive
South Huntington, NY 11746

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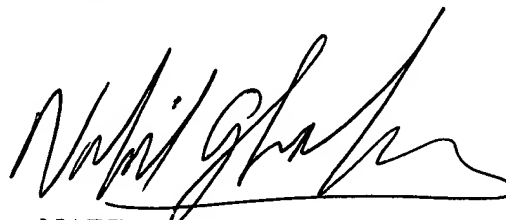
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Page 6 of 6

PATENT NO. : US RE 40,340E
APPLICATION NO.: 08/962,971
ISSUE DATE : MAY 27, 2008
INVENTOR(S) : NABIL N. GHALY

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

7. Please replace **FIG. 18** with attached replacement sheet.
8. Please replace **FIG. 23** with attached replacement sheet.
9. Please replace **FIG. 24** with attached replacement sheet.
10. Please include attached new sheet for **FIG. 25**.
11. Please include attached new sheet for **FIG. 26**.
12. Please include attached new sheet for **FIG. 27**.
13. Please include attached new sheet for **FIG. 28**.



NABIL N. GHALY
Applicant, Pro Se
14 Longwood Drive
South Huntington, NY 11746
(631) 549-0980

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Dr. Nabil N. Ghaly
14 Longwood Drive
South Huntington, NY 11746

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REPLACEMENT SHEET

LEGEND

- N** : DIMENSION OF LOGIC GAME = NUMBER OF PREDETERMINED COLORS WHICH MAY BE DISPLAYED, (EXCLUDED REFLECTED COLOR WHEN DISPLAY IS DARK)
= 4 (FOR THE PREFERRED EMBODIMENT)
- n** : NUMBER OF BINARY BITS IN OPCODE AND COLOR CODE
= $\ln N + 1 = 3$ (FOR THE PREFERRED EMBODIMENT)
- I** : ROW NUMBER I, $I = 1, \dots, N$
- J** : COLUMN NUMBER J, $J = 1, \dots, N$
- DIR** : ROUTE DIRECTION BETWEEN TWO ADJACENT ROUTING SQUARES;
"R" DENOTES RIGHT
"U" DENOTES UP
"L" DENOTES LEFT
"D" DENOTES DOWN
- T** : OPCODE TRANSMITTER; $T = 1, \dots, 2N$
- R** : OPCODE RECEIVER; $R = 1, \dots, 2N$
- RC(T)** : RECEIVER CONNECTED TO TRANSMITTER "T"
- TC(R)** : TRANSMITTER CONNECTED TO RECEIVER "R"
- W(I,J)** : STATUS OF SWITCH LOCATED AT ROW "I" AND COLUMN "J," OR STATUS OF ROUTING SQUARE AT ROW "I" AND COLUMN "J"
- TCODE(T)** : OPCODE AT TRANSMITTER "T"
- RCODE(R)** : OPCODE AT RECEIVER "R"
- C(R)** : COLOR CODE AT RECEIVER "R"
- x(i)** : THE i th BIT OF OPCODE "X"
- y(i)** : THE i th BIT OF OPCODE "Y"
- cb(i)** : THE i th BIT OF COLOR CODE "C"
- C1(I,J)** : COLOR CODE AT THE RIGHT EDGE OF THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"
- C2(I,J)** : COLOR CODE AT THE TOP EDGE OF THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"
- C(I,J)** : COLOR CODE SELECTED FOR DISPLAY AT THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"
- \oplus : EXCLUSIVE OR BOOLEAN FUNCTION
- \odot : EXCLUSIVE NOR BOOLEAN FUNCTION

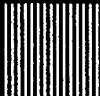



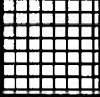









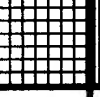

















EXPLANATION OF PROGRAM VARIABLES OF FIGS. 19 – 22


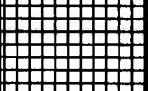


FIG. - 18 -

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0 1 0								
0 1 1								
1 0 0								
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1 1 1								

COLOR CODE	1 0 0	1 0 1	1 1 0	1 1 1	0 - -
COLOR					

COLOR ASSIGNMENT FOR N = 4

FIG. - 23 -

REGENT OPTO
PUNJAB

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REPLACEMENT SHEET

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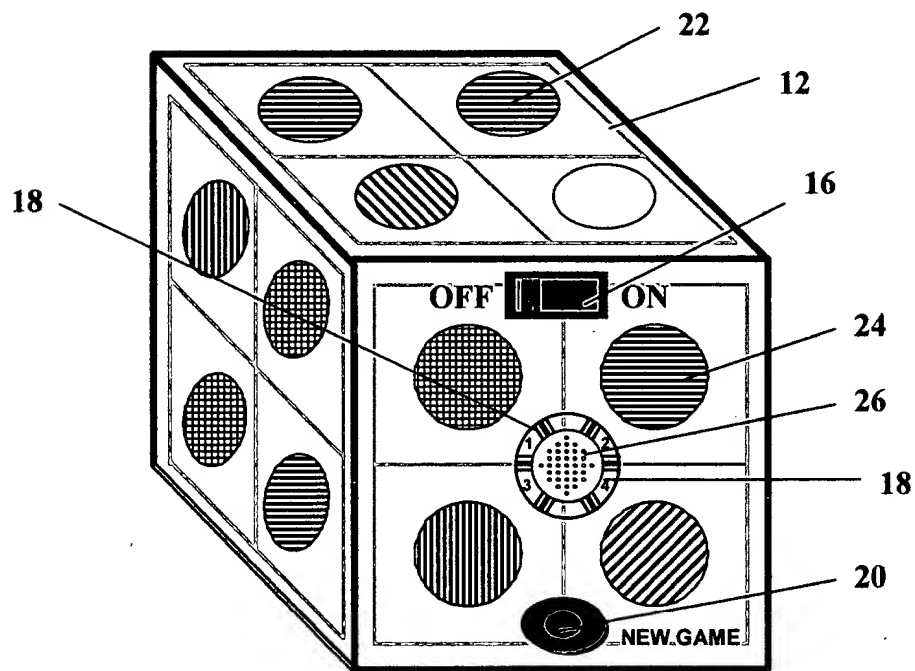
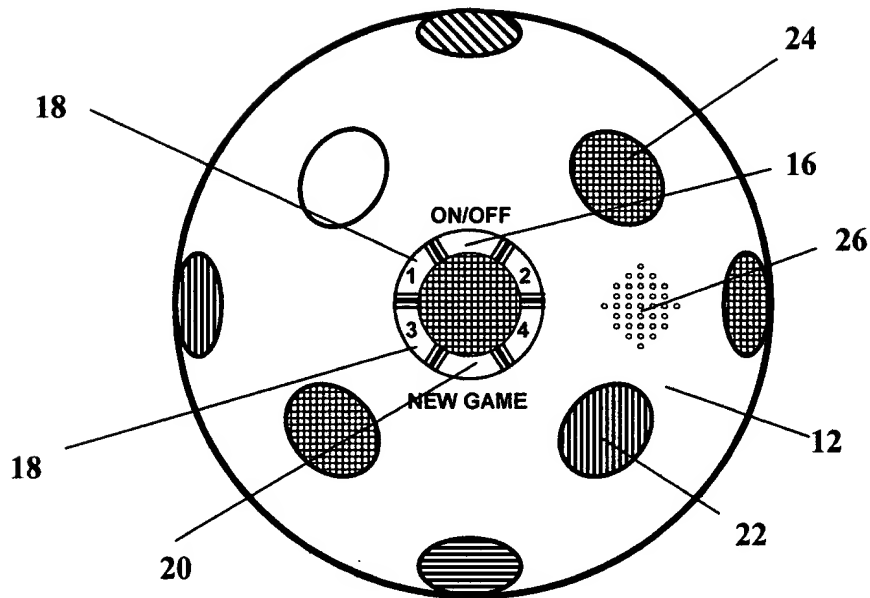
COLOR ASSIGNMENT FOR N = 8

FIG. - 24 -

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NEW SHEET



MAPPING OF INDICATORS ON 3 DIMENSIONAL CONFIGURATION

FIG. - 25 -

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Patent Division

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NEW SHEET

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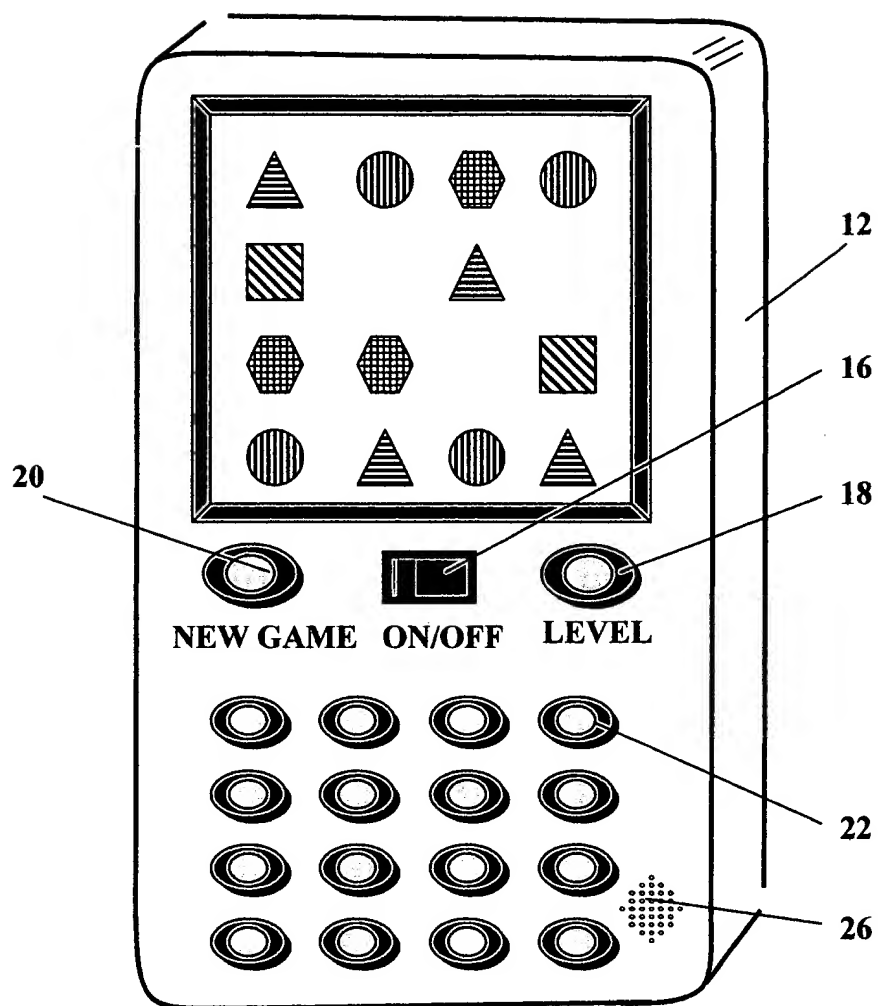
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COLOR					

COLOR ASSIGNMENT FOR N = 4
(Color codes assigned to 2 colors)

FIG. - 26 -

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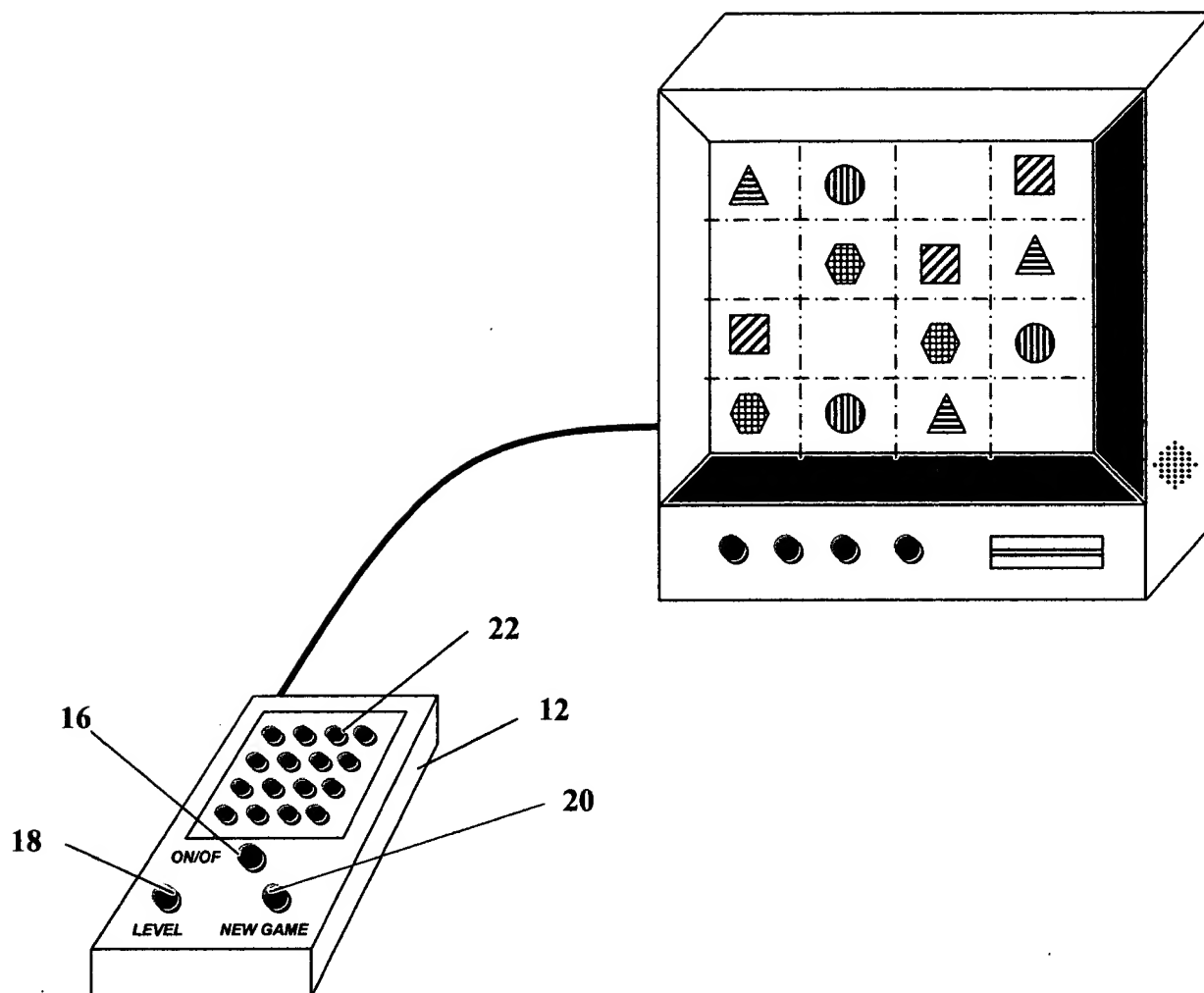


ALTERNATE EMBODIMENT USING LCD SCREEN

FIG. - 27 -

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CONNECTION TO VIDEO MONITOR

FIG. - 28 -

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LEGEND

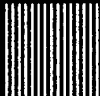



















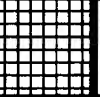











- N** : DIMENSION OF LOGIC GAME = NUMBER OF PREDETERMINED COLORS WHICH MAY BE DISPLAYED, (EXCLUDED REFLECTED COLOR WHEN DISPLAY IS DARK)
= 4 (FOR THE PREFERRED EMBODIMENT)
- n** : NUMBER OF BINARY BITS IN OPCODE AND COLOR CODE
= $\ln N + 1 = 3$ (FOR THE PREFERRED EMBODIMENT)
- I** : ROW NUMBER I, $I = 1, \dots, N$
- J** : COLUMN NUMBER J, $J = 1, \dots, N$
- DIR** : ROUTE DIRECTION BETWEEN TWO ADJACENT ROUTING SQUARES;
"R" DENOTES RIGHT
"U" DENOTES UP
"L" DENOTES LEFT
"D" DENOTES DOWN
- T** : OPCODE TRANSMITTER; $T = 1, \dots, 2N$
- R** : OPCODE RECEIVER; $R = 1, \dots, 2N$
- RC(T)** : RECEIVER CONNECTED TO TRANSMITTER "T"
- TC(R)** : TRANSMITTER CONNECTED TO RECEIVER "R"
- W(I,J)** : STATUS OF SWITCH LOCATED AT ROW "I" AND COLUMN "J," OR STATUS OF ROUTING SQUARE AT ROW "I" AND COLUMN "J"
- TCODE(T)** : OPCODE AT TRANSMITTER "T"
- RCODE(R)** : OPCODE AT RECEIVER "R"
- C(R)** : COLOR CODE AT RECEIVER "R"
- x(i)** : THE i th BIT OF OPCODE "X"
- y(i)** : THE i th BIT OF OPCODE "Y"
- cb(i)** : THE i th BIT OF COLOR CODE "C"
- C1(I,J)** : COLOR CODE AT THE RIGHT EDGE OF THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"
- C2(I,J)** : COLOR CODE AT THE TOP EDGE OF THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"
- C(I,J)** : COLOR CODE SELECTED FOR DISPLAY AT THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"
- \oplus : EXCLUSIVE OR BOOLEAN FUNCTION
- \odot : EXCLUSIVE NOR BOOLEAN FUNCTION

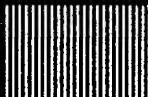
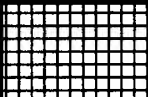


EXPLANATION OF PROGRAM VARIABLES OF FIGS. 19 – 22

FIG. - 18 - AMENDED

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OPCODE	0	0	0	0	1	1	1	1
	0	0	1	1	0	0	1	1
	0	1	0	1	0	1	0	1
0 0 0								
0 0 1								
0 1 0								
0 1 1								
1 0 0								
1 0 1								
1 1 0								
1 1 1								

































































































































COLOR CODE	1 0 0	1 0 1	1 1 0	1 1 1	0 - -
COLOR					









COLOR ASSIGNMENT FOR N = 4

FIG. - 23 - AMENDED

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OPCODE	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
0 0 0 0																
0 0 0 1																
0 0 1 0																
0 0 1 1																
0 1 0 0																
0 1 0 1																
0 1 1 0																
0 1 1 1																
1 0 0 0																
1 0 0 1																
1 0 1 0																
1 0 1 1																
1 1 0 0																
1 1 0 1																
1 1 1 0																
1 1 1 1																

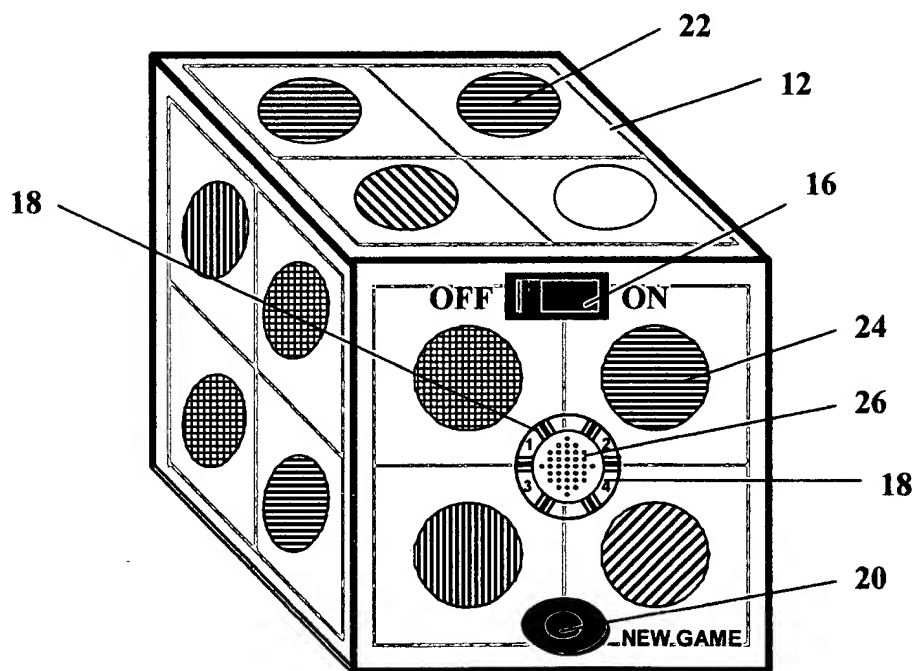
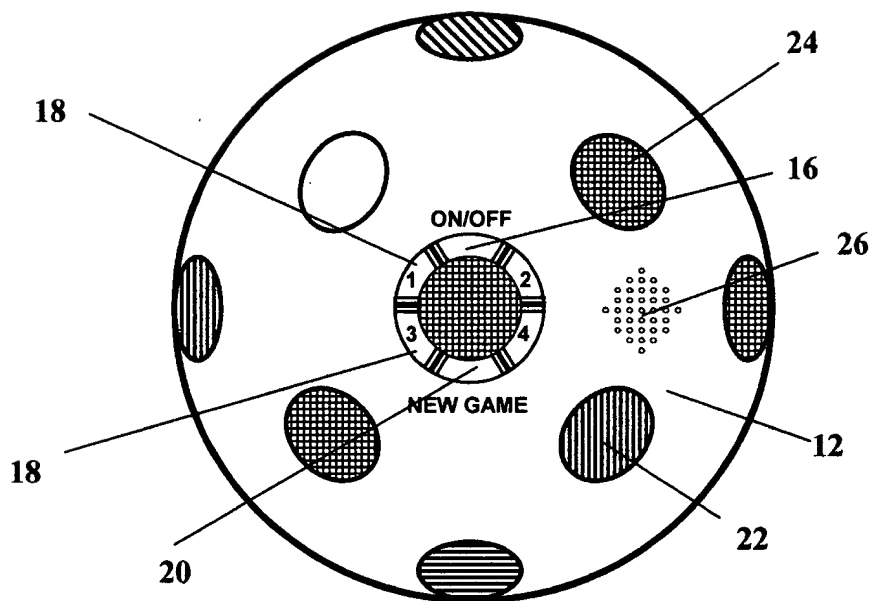
COLOR CODE	1000	1001	1010	1011	1100	1101	1110	1111	0---
COLOR									

COLOR ASSIGNMENT FOR N = 8

FIG. - 24 - AMENDED

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Patent Publication

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MAPPING OF INDICATORS ON 3 DIMENSIONAL CONFIGURATION

FIG. - 25 - NEW

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PUSH-PULL-DRUM
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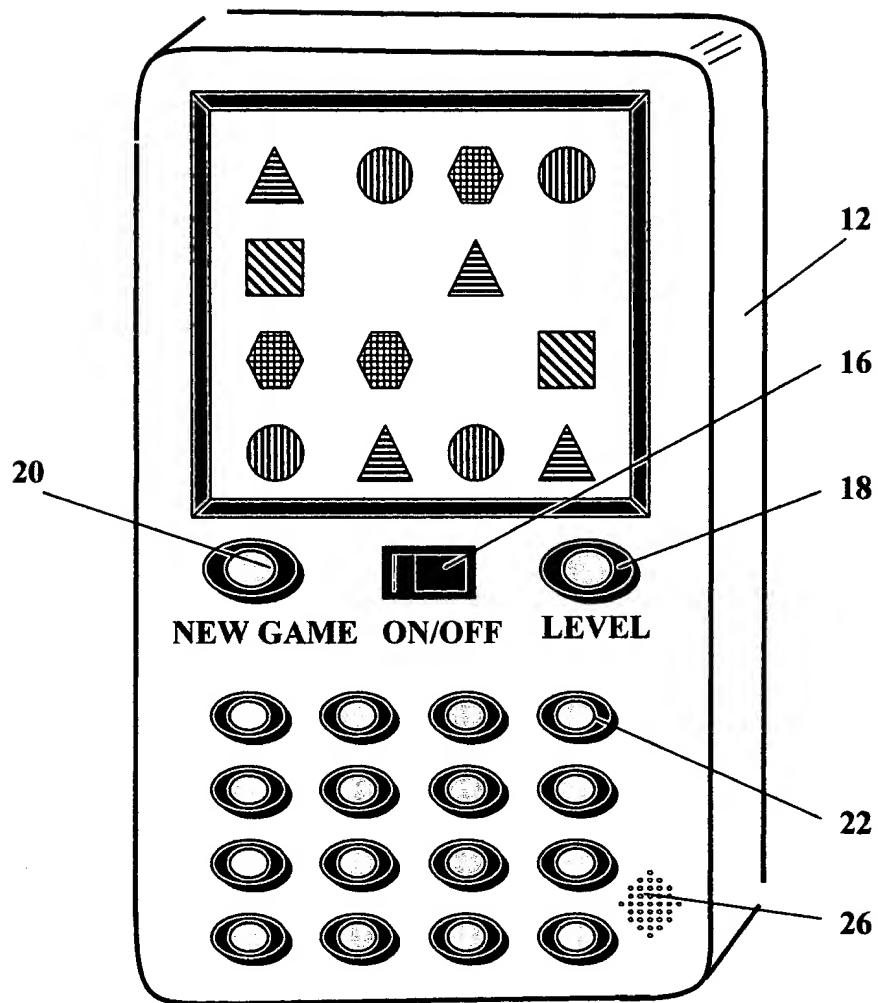
OPCODE	0	0	0	0	1	1	1	1
	0	0	1	1	0	0	1	1
	0	1	0	1	0	1	0	1
0 0 0								
0 0 1								
0 1 0								
0 1 1								
1 0 0								
1 0 1								
1 1 0								
1 1 1								

COLOR CODE	1 0 0	1 0 1	1 1 0	1 1 1	0 - -
COLOR					

COLOR ASSIGNMENT FOR N = 4
(Color codes assigned to 2 colors)

FIG. - 26 - NEW

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 PERS. POL. DIV.
 AUG 19 2008

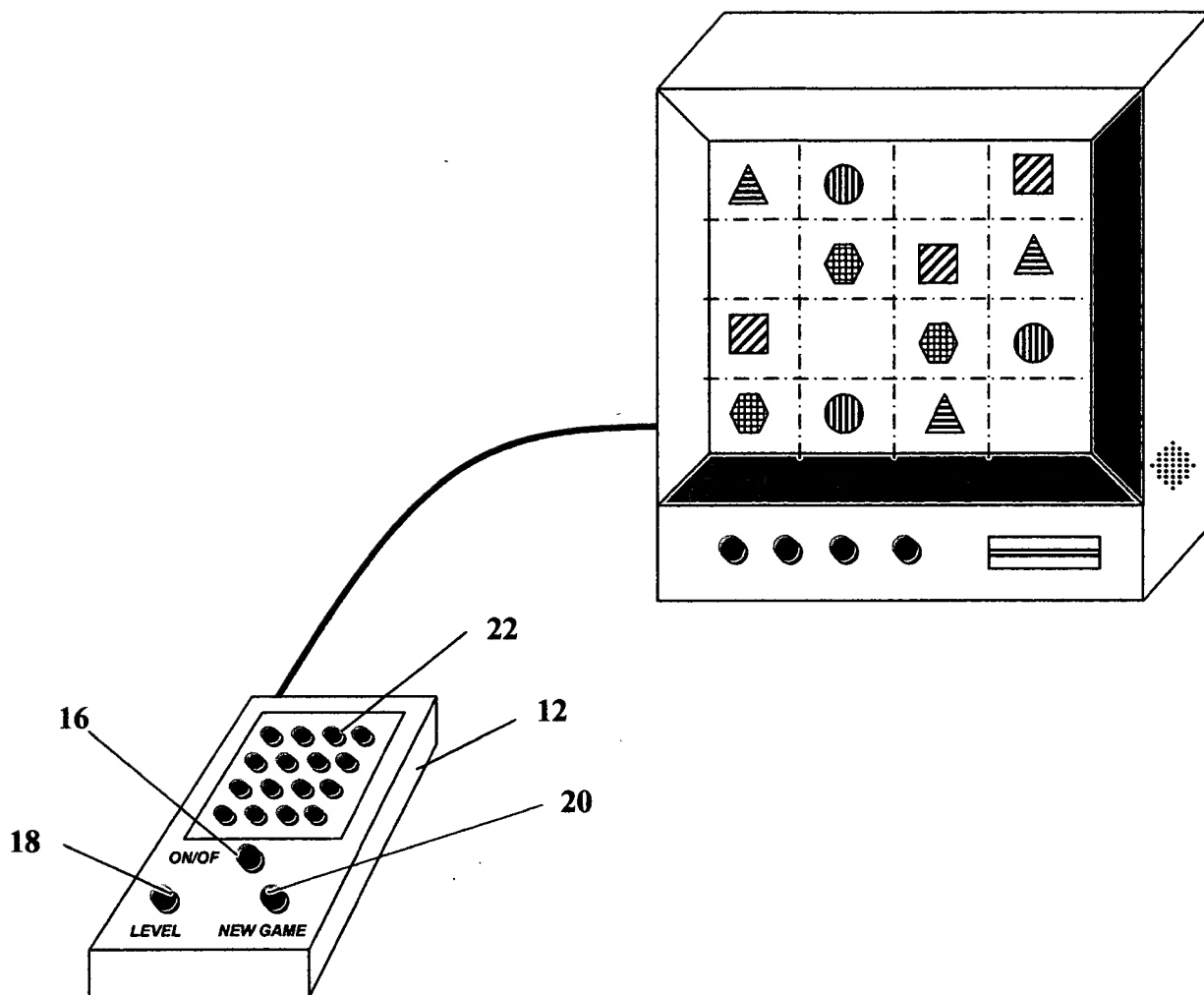


ALTERNATE EMBODIMENT USING LCD SCREEN

FIG. - 27 - NEW

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PATENT & TRADEMARK OFFICE

AUG 19 2008



CONNECTION TO VIDEO MONITOR

FIG. - 28 - NEW

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APPLICATION

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